



PTO Serial No. 08/486,258  
Docket No. 5634.0357

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

**John C. Harvey and James W. Cuddihy:**

Group Art Unit: 2699

Serial No.: 08/486,258

Examiner: FAILE, A.

Filed: June 7, 1995

Atty. Docket: 05634.0357

For: **SIGNAL PROCESSING APPARATUS  
AND METHODS**

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TRANSMITTAL LETTER

Assistant Commissioner of Patents  
Washington, D.C. 20231

- [X] Information Disclosure Statement;  
[X] PTO FORM 1449;  
[X] A fee of \$180.00 is required, and is calculated as shown below:

	(Col 1) Claims Remaining After Amendment		(Col 2) Highest No. Previously Paid for	(Col 3) Present Extra	Rate	Additional Fee
Total	*	Minus	**	=0	x \$ 18.00	\$0.00
Indep.	*	Minus	***	=0	x \$ 78.00	\$0.00
First Presentation of Mult. Dep. Claim					x \$ 260.00	\$0.00
Fee under 37 C.F.R. § 1.17(p).						\$180.00
Total Fee Enclosed						\$180.00

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest Number Previously Paid For" in this space is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" in this space is less than 3, write "3" in this space. "The Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

- [X] **HUNTON & WILLIAMS** check no. 2050799 in the amount of \$180.00 is enclosed.  
[X] The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 50-0206.

- [X] Any filing fees under 37 CFR 1.16 for the presentation of extra claims.  
[X] Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

Thomas J. Scott, Jr.  
Reg. No. 27,836  
Donald J. Lecher  
Reg. No. 41,933  
Attorneys for Applicants  
Tel: (202) 955-1938

Date: March 19, 2002

**HUNTON & WILLIAMS**  
1900 K Street, N.W.  
12<sup>th</sup> Floor  
Washington, D.C. 20006



PTO Serial No. 08/486,258  
Docket No. 5634.0357

32/66  
1/4/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John C. Harvey and  
James W. Cuddihy

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**Box: FEE-AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

**I. Description of the References**

The references identified in this Supplemental Information Disclosure Statement ("Supplemental IDS") can be grouped into three categories. *First*, there are references identified in this Supplemental IDS that were cited to the PTO in connection with related applications, but were not cited in the instant application due to applicants' asserted

priority date of November 3, 1981. Applicants are now citing these references because the Examiner has challenged applicants' November 3, 1981 priority date. Applicants maintain, however, that this application is entitled to the benefit of the challenged November 3, 1981 filing date.

*Second*, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

*Third*, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

## **II. Description of Corrections**

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application

number. The correct identification of this reference is publication number FR 2,417,226.

- With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified. Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.
- Applicants' Information Disclosure Statement filed on April 7, 1997 contained a number of inadvertent errors. This Supplemental IDS corrects errors in the April 7, 1997 document. Accordingly, the April 7, 1997 IDS should be withdrawn from consideration and this Supplemental IDS should be substituted for the April 7, 1997 IDS.

### **III. Concise Explanations of Foreign Language References**

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS. Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

#### IV. Conclusion

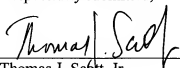
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS where applicants have previously provided copies of all of the references cited herein in related applications. Applicants are presently providing newly acquired translations of three Japanese patent applications, 58-99817, 56-84340 and 58-29020 in applicants' application number 08/113,329, pursuant to the same agreement mentioned above.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

Submitted herewith is a check in the amount of \$180.00 to cover the fee for filing this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.17(p). Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 19, 2002  
**HUNTON & WILLIAMS**  
1900 K Street, N.W.  
Washington, DC 20006

Respectfully submitted,

  
\_\_\_\_\_  
Thomas J. Scott, Jr.  
Reg. No. 27,836  
Tel.: (202) 955-1685  
Fax: (202) 778-2201

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

**APPENDIX A**

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
20,242	12/10/80	EPO	G09G 1/16	X	
46,108	02/17/82	EPO	H04N 5/76	X	
49,184	04/07/82	EPO	G09B 7/08	X	
53,984**	"No Date" /BL/	Japan		X	
55,167	06/30/82	EPO	G09G 1/16	X	
55,674	07/07/82	EPO	07/07/82		
56,649	07/28/82	EPO	H04N 5/44		
481,565	04/29/76	Australia			
77,712	04/27/83	EPO	H04N 7/00	X	
78,185	05/04/83	EPO	H04N 7/00	X	
103,438	03/21/84	EPO	H04N 7/10		
128,481	12/19/84	EPO	H04N 7/00		
132,007	01/23/85	EPO	H04N 7/16		
133,985	03/13/85	EPO	H 04 N 7/087		
152,251	08/21/85	EPO	H04H 1/2		
187,417	07/16/86	EPO	H04 N 7/087		
206,821	12/30/86	EPO	H04N 7/00		
217,308	04/08/87	EPO	H04M 11/00		
857,862	7/4/61	Great Britain	40 (1)		
959,274	05/27/64	Great Britain			
1,066,931	04/26/67	Great Britain	G 07c		
1,189,612	06/25/85	Canada	Ho4n 7/08		
1,204,190	09/03/70	Great Britain			
1,213,357	11/25/70	Great Britain			
1,216,977	01/20/87	Canada	HO4M 11/00		
1,370,535	10/16/74	Great Britain	GO9G1/16		
1,396,981	06/11/75	Great Britain	H04H 1/00		
1,515,309	06/21/78	Great Britain	G06 K 15/20		
1,523,307	08/31/78	Great Britain	H03K 5/08		
1,543,502	04/04/79	Great Britain	G08B9/00		
1,554,411	10/17/79	Great Britain	H04b 3/54		
1,556,366	11/21/79	Great Britain			
1,582,563	01/14/81	Great Britain	G08B9/00		
1,584,111	02/04/81	Great Britain	G08B9/00		
2,016,874	02/01/79	Great Britain			
2,033,699	05/21/80	Great Britain	H04L 1/10, 1/40		
2,034,995	06/11/80	Great Britain	H03J 7/18, 5/00		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
2,051,527	01/14/81	Great Britain	G06F 3/153		
2,058,681	06/15/72	Germany	H04N 7/08	X	
2,067,379	07/22/81	Great Britain	H04L 1/24		
2,081,948	02/24/82	Great Britain	H04Q 9/00		
2,090,504	07/07/82	Great Britain	H04N 3/16		
2,103,455	02/16/83	Great Britain	H04N 1/00 7/12		
2,126,002	03/14/84	Great Britain	G11B 15/02		
2,140,963	12/05/84	Great Britain			
2,141,897	01/03/85	Great Britain	H04N 7/16		
2,164,229	03/12/86	Great Britain			
2,167,917	06/04/86	Great Britain			
2,185,670	07/22/87	Great Britain	H04N 7/087		
2,338,380	02/13/75	Germany		X	
2,356,969	05/22/75	Germany			X
2,417,226	02/01/79	France		X	
2,453,441	05/13/76	Germany	H04L 9/00	X	
2,496,376	06/18/82	France	H04N 7/00	X	
2,516,733	05/05/83	France	H04N 7/00	X	
2,550,624	05/26/77	Germany		X	
2,823,175	11/29/79	Germany	G06F 3/12	X	
2,831,014	04/03/80	Germany		X	
2,853,764	01/29/81	Germany		X	
2,904,891	08/16/79	Germany			X
2,918,846	11/13/80	Germany	F26B 12/02		X
3,020,787	12/17/81	Germany	H04N 7/08	X	
3,039,949	05/06/82	Germany	H04M 3/42	X	
3,112,249	10/07/82	Germany	G09G 1/28	X	
3,143,627	05/11/83	Germany			X
3,337,204	04/25/85	Germany	H04N 5/44	X	
53-068124	06/17/78	Japan			X
53-11515	02/02/78	Japan		X	
53-121420	10/23/78	Japan		X	
55-028691	02/29/80	Japan			X
55-26792	02/26/80	Japan		X	
55-49084	04/08/80	Japan			X
55-500886	10/30/80	Japan		X	
55-79585	06/16/80	Japan		X	
56-47179	04/28/81	Japan			X
56-51161	05/08/81	Japan			X
57-199377	12/07/82	Japan			X
58-156279	09/17/83	Japan		X	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
58-209276	12/06/83	Japan			X
59-154886	09/03/84	Japan			X
59-160387	09/11/84	Japan	H04N 7/10		X
59-224988	12/17/84	Japan			X
59-501340	03/23/84	Japan		X	
60-123182	07/01/85	Japan			X
60-146587	08/02/85	Japan		X	
60-149281	08/06/85	Japan		X	
60-256289	12/17/85	Japan	H04N 7/173		X
60-61935	04/09/85	Japan	G11B15/02	X	
61-148988	07/07/86	Japan	H04N 7/173		X
61-174889	08/06/86	Japan		X	
61-20441	01/29/86	Japan		X	
61-267474	11/27/86	Japan		X	
61-50470	03/12/86	Japan	H04N 5/44	X	
PL 204,525	02/09/78	Poland		X	
WO 80/00292	02/21/80	PCT Appl.	H04N9/16	X	
WO 80/02093	10/02/80	PCT Appl.	H04B 1/20		
WO 80/02901	12/24/80	PCT Appl.	H04N 7/16	X	
WO 81/02961	10/15/81	PCT Appl.	H04N 7/16, 7/04		
WO 83/00789	03/03/83	PCT Appl.	H04N 7/08	X	
WO 85/03604	08/15/85	PCT Appl.	H03K 3/84		
WO 85/03830	08/29/85	PCT Appl.	H04N 7/16		
WO 87/04884	08/13/87	PCT Appl.	H04M 11/08		

\*\* Japanese reference 53,984 to Jinno was cited by the Examiner in Application No. 08/470,447. The Examiner did not supply a publication date and applicants have been unable to determine a publication date for this reference.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/



**APPENDIX B**

**Concise Explanations for Foreign References**

**JP 61-174889      August 6, 1986      Japan**

Foreign language patent JP 61-174889 came to applicants' attention during the prosecution of applicants' applications pending in Japan.

**FR 2,417,226      February 1, 1979      France**  
**PL 204,525      February 9, 1978      Poland**

The French reference 2,417,226 and Polish reference PL 204,525 are both applications filed by Zaboklicki. The PTO has cited the German application filed by Zaboklicki which claims priority to the Polish Zaboklicki application. Translations of the German Zaboklicki application have been provided to the Examiner.

**DE 2,831,014      April 3, 1980      Germany**

The German reference DE 2,831,014 was applied by the Examiner in the September 4, 2001 Office Action in Application No. 08/487,526.

**JP 55-26792      February 26, 1980      Japan**

The Japanese reference JP 55-26792 was applied by the Examiner in the August 27, 2001 Office Action in Application No. 08/470,571.

**WO 80/02901      December 24, 1980      France**

The WO 80/02901 reference discloses a television system with a double key encryption service for subscription television.

**DE 3,337,204      April 3, 1980      Germany**

German reference DE 3,337,204 discloses a viewer interactive program schedule.

The following Japanese references were identified on applicants' on May 11, 2001 IDS, but explanations were unintentionally not provided. All of these applications came to applicants' attention during the prosecution of applicants' applications pending in Japan.

JP 53-11515	February 2, 1978	Japan
JP 53-121420	October 23, 1978	Japan
JP 55-500886	October 30, 1980	Japan
JP 59-501340	March 23, 1984	Japan
JP 60-146587	September 2, 1985	Japan
JP 61-20441	January 29, 1986	Japan
JP 61-267474	November 27, 1986	Japan

The following references were cited on PTO form 892 by the Examiners in applicants related pending applications.

JP 58-156279	September 17, 1983	Japan
JP 55-79585	June 16, 1980	Japan

**23 38 380 February 13, 1975 Germany**

This reference discloses television receivers that transmit control signals to a decoder/processor combination.

**61-050470 March 12, 1986 Japan**

This reference discloses a program engagement device that displays the program content at a television receiver and includes a display output control device.

**60-61935 April 9, 1985 Japan**

This reference discloses a system that generates, detects, communicates, and/or converts digital signals.

**2 058 681 June 15, 1972 Germany**

This reference discloses a television mode arrangement for transmitting, receiving, and presenting coded information.

**0 020 242 December 10, 1980 European**

This reference discloses a teletext character alignment process.

**0 046 108 February 17, 1982 European**

This reference discloses a integrated circuit interface between a television receiver and recorder.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

**0 049 184      April 7, 1982      European**

This reference discloses a pocket teaching aid using a television receiver with a teletext system.

**0 055 167      June 30, 1982      European**

This reference discloses a teletext CRT display for messages from a composite memory.

**0 077 712      April 27, 1983      European**

This reference discloses a multi-channel digital packet television broadcasting system.

**0 078 185      May 4, 1983      European**

This reference discloses a digital packet broadcasting system using television transmissions.

**2 496 376      June 18, 1982      France**

This reference discloses a teletext display of data on the television screen.

**2 516 733      May 5, 1983      France**

This reference discloses an error controller for a teletext television decoder.

**2 823 175      November 29, 1989      Germany**

This reference discloses a teletext information display for television transmission.

**24 53 441      May 13, 1976      Germany**

This reference discloses a wideband signal transmission with digital to image signal conversion.

**DE 30339949      May 6, 1982      Germany**

This reference discloses a method for the generation of teletext display having a color character contrast.

**DE 3112249      October 7, 1982      Germany**

This reference discloses a processing signals from either a colored television receiver or from a video text decoder.

**DE 3020787      December 17, 1981      Germany**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

This reference discloses a television transmission system that sends extra data during a blanking period.

**WO 80/00292      February 21, 1980      Japan**

This reference discloses a decoder for a television receiver that has a color component that splits signals and recombines the signals into a composite drive current signal.

**WO 83/00789      March 3, 1983      Japan**

This reference discloses an image display unit which displays received image signals via a memory, wherein the image signals include teletext displays of weather reports or television programs.

**Graf, P.H., "Antiope-Uebertragung fuer Breitbandige Videotex-Verteildienste," 1981.**

This reference shows an Antiope demodulator/detector.

**Heller, Arthur, "VPS - Ein Neues System Zuragsgesteurten Programmanzeichnung, Rundfunk technisde Mitteilungen, pp. 162-169.**

This reference discloses a decoding system for use with a VCR.

**Marti, B et al., Discrete, service de television cryptee, Revue de radiodiffusion - television (1975), pp. 24-30.**

This reference discloses an analog decryption system.

**Strauch, D., "(Las Media De Telecommunication Devant la Rapture. Les Nonvellas Methodes Presentees a L'Eposition International 1979 de Radio (Et Television)) 1979.**

This reference is a discussion of videotext, teletext, ceefax, oracle, and antiope.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT CITATION FORM	Attorney Docket No.	Serial No.
	05634.0357	08/486,258
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 7, 1995	Group Art Unit 2699

## UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,992,271	02/26/35	Williams		09/17/31
	2,046,381	07/07/36	Hicks et al.	12/10/30	
	2,192,217	03/05/40	Bellamy, et al.	07/15/29	
	2,217,881	10/15/40	Allen		02/18/32
	2,236,077	03/25/41	Smith		05/29/30
	2,264,563	12/02/41	Burnstead		01/02/32
	2,418,127	04/01/47	Labin	178/44	
	2,563,448	08/07/51	Aram	178/5.1	
	2,570,209	10/09/51	Cotsworth, III	05/01/48	
	2,855,993	10/14/58	Rahmel	358/84	03/19/54
	2,995,624	08/08/61	Watters		03/11/59
	3,011,153	11/28/61	Haselton et al.	05/23/56	
	3,029,308	04/10/62	Adler et al.	09/22/58	
	3,071,649	01/01/63	Goodall	179/1.5	
	3,082,402	03/19/63	Scantlin		05/10/60
	3,107,274	10/15/63	Roschke	178/5.1	
	3,133,986	05/19/64	Morris et al.	178/5.1	
	3,251,051	05/10/66	Harries	340/345	
	3,366,731	01/30/68	Wallerstein	08/11/67	
	3,470,309	09/30/69	Nyberg	178/5.1	
	3,478,166	11/11/69	Reiter et al.	178/5.1	
	3,526,843	09/01/70	Sanville	329/104	
	3,546,684	12/08/70	Maxwell et al.	340/172.5	
	3,612,752	10/12/71	Banning, Jr.	178/5.1	06/22/66
	3,639,686	02/01/72	Walker et al.	178/5.8R	
	3,649,749	03/14/72	Gibson	178/5.6	
	3,651,261	03/21/72	Guanelia	178/22	
	3,666,888	05/30/72	Sekimoto	178/69.5 TV	
	3,723,637	03/27/73	Fujio et al.	178/5.2R	
	3,746,799	07/17/73	Gentges	178/22	
	3,764,983	10/09/73	Stok	340/150	05/03/72
	3,769,579	10/30/73	Harney	325/31	
	3,773,979	11/20/73	Kirk, Jr. et al.	179/15 FD	
	3,778,058	12/11/73	Rausch	463/3	06/17/71
	3,778,721	12/11/73	Moran	325/396	09/08/72
	3,789,131	01/29/74	Harney	178/5.1	
	3,794,922	02/26/74	Osborn et al.	325/53	
	3,795,763	03/05/74	Golding et al.	178/5.6	
	3,813,482	05/28/74	Blonder	178/5.1	
	3,826,863	07/30/74	Johnson	178/5.1	



EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,859,596	04/07/75	Jannery et al.	325/31	
	3,882,289	05/06/75	Walding et al.	200/11 D	
	3,894,177	07/08/75	Howell et al.	178/5.6	
	3,896,262	07/22/75	Hudspeth et al.	178/5.1	
	3,896,266	07/22/75	Waterbury	179/1 SB	
	3,924,059	12/02/75	Horowitz	178/5.1	
	3,950,618	04/13/76	Bloisi	179/2 AS	
	3,958,081	05/18/76	Ehram et al.	178/22	
	3,975,585	08/17/76	Kirk, Jr. et al.	178/5.1	
	3,990,012	11/02/76	Karnes	325/308	
	3,996,586	12/07/76	Dillon et al.	340/347 DD	
	4,004,085	01/18/77	Makino et al.	340/324	
	4,013,875	03/22/77	McGlynn	235/150.2	
	4,015,286	03/29/77	Russell	358/13	RECEIVED
	4,019,201	04/19/77	Hartung et al.	358/124	
	4,020,419	04/26/77	Caspari et al.	325/421	MAR 26 2002
	4,024,575	05/17/77	Harney et al.	358/118	
	4,027,267	05/31/77	Larsen	329/106	Technology Center 2000
	4,027,331	05/31/77	Nicol	358/135	
	4,035,838	07/12/77	Bassani et al.	358/86	03/16/76
	4,044,376	08/23/77	Porter	358/84	
	4,045,814	08/30/77	Hartung et al.	358/124	
	4,059,729	11/22/77	Eddy et al.	179/15 BF	06/09/76
	4,061,879	12/06/77	Wintzer	179/15 BA	09/29/75
	4,070,693	01/24/78	Shutterly	358/123	
	4,075,660	02/21/78	Horowitz	358/124	
	4,081,754	03/28/78	Jackson	325/396	
	4,086,434	04/25/78	Bocchi	79/2 AM	
	4,088,958	05/09/78	Suzuki et al.	325/396	
	4,095,258	06/13/78	Sperber	358/120	
	4,096,542	06/20/78	Pappas et al.	361/196	
	4,107,734	08/15/78	Percy et al.	358/84	
	4,112,317	09/05/78	Everswick	307/308	
	4,112,383	09/05/78	Burgert	329/50	
	4,114,841	09/19/78	Muhlfelder et al.	244/166	
	4,124,887	11/07/78	Johnson et al.	364/107	
	4,126,762	11/21/78	Martin et al.	179/2A	
	4,142,156	02/27/79	Freund	325/309	
	4,145,717	03/20/79	Guif et al.	358/121	
	4,156,253	05/22/79	Steudel	358/11	
	4,156,931	05/29/79	Adelman et al.	364/900	
	4,162,483	07/24/79	Entenman	340/147 R	04/01/77
	4,163,252	07/31/79	Mistry et al.	358/118	
	4,180,709	12/25/79	Cosgrove et al.	179/2 AM	
	4,199,781	04/22/80	Doumit	358/83	
	4,199,809	04/22/80	Pasahow et al.	364/200	
	4,207,524	06/10/80	Purchase	375/22	

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	4,214,273	08/05/80	Brown	358/188	
	4,216,497	08/05/80	Ishman et al.	358/84	
	4,222,068	09/09/80	Thompson	358/120	
	4,225,918	09/30/80	Beadle et al.	364/200	03/09/77
	4,246,611	01/20/81	Davies	358/194	
	4,247,947	01/27/81	Miyamoto	455/38	
	4,258,386	03/24/81	Cheung	358/84	
	4,272,784	06/09/81	Saito et al.	358/127	
	4,273,962	06/16/81	Wolfe	179/7.1R	
	4,295,155	10/13/81	Jarger et al.	358/12	
	4,301,542	11/17/81	Weintraub et al.	455/353	
	4,316,217	02/16/82	Rifken	358/86	
	4,318,047	03/02/82	Dawson	328/112	
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
	4,329,711	05/11/82	Cheung	358/114	
	4,335,426	06/15/82	Maxwell et al.	364/200	
	4,338,643	07/06/82	Tadokoro	360/135	
	4,340,906	07/20/82	den Toonder et al.	358/124	
	4,341,925	07/27/82	Doland	178/22.17	RECEIVED
	4,348,696	09/07/82	Beier	358/188	
	4,355,415	10/19/82	George et al.	455/185	MAR 20 2002
	4,358,672	11/09/82	Hyatt et al.	235/380	Technology Center 2600
	4,360,881	11/23/82	Martinson	364/493	
	4,361,903	11/30/82	Ohta	455/2	
	4,365,249	12/21/82	Tabata	340/825.3	09/29/80
	4,365,267	12/21/82	Tsuda	358/84	
	4,369,333	01/18/83	Gemperle et al.	178/22.13	
	4,382,256	05/05/83	Nagata	340/825.44	
	4,383,273	05/10/83	Lunn	348/725	12/29/80
	4,385,384	05/24/83	Rosbury et al.	371/22	
	4,386,416	05/31/83	Giltner et al.	364/900	06/02/80
	4,386,436	05/31/83	Kocher et al.	455/151	
	4,392,135	07/05/83	Ohyagi	340/825.44	
	4,393,277	07/12/83	Besen et al.	179/2 A	
	4,405,946	09/20/83	Knight	358/192.1	
	4,408,345	10/04/83	Yashiro et al.	455/3	
	4,410,911	10/18/83	Field et al.	358/121	
	4,411,017	10/18/83	Talbot	455/26	
	4,412,244	10/25/83	Shanley, II	358/22	
	4,414,516	11/08/83	Howard	333/21A	
	4,414,621	11/08/83	Bown et al.	364/200	
	4,418,425	11/29/83	Fennel et al.	455/27	
	4,424,533	01/03/84	Rzeszewski	358/167	
	4,425,578	01/10/84	Haselwood et al.	358/84	
	4,425,579	01/10/84	Merrell	358/86	
	4,425,664	01/10/84	Sherman et al.	375/8	
	4,426,698	01/17/84	Pargée, Jr.	371/37	08/24/81

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	4,427,968	01/24/84	York	340/310	
	4,429,385	01/31/84	Cichelli et al.	370/92	
	4,433,211	02/21/84	McCalmont et al.	179/1.5 S	
	4,434,438	02/28/84	Rzeszewski	358/167	
	4,439,785	03/27/84	Leonard	358/120	
	4,449,249	05/15/84	Price	455/45	
	4,450,442	05/22/84	Tanaka	340/814	
	4,450,481	05/22/84	Dickinson	358/114	
	4,450,531	05/22/84	Kenyon et al.	364/604	
	4,451,700	05/29/84	Kempner et al.	179/2 AS	
	4,454,538	06/12/84	Toriumi	358/86	
	4,454,543	06/12/84	Lund et al.	358/118	
	4,454,594	06/12/84	Heffron et al.	364/900	
	4,456,925	06/26/84	Skerlos et al.	358/85	
	4,458,109	07/03/84	Mueller-Schloer	178/22.11	
	4,458,268	07/03/84	Ciciora	358/120	
	4,458,315	07/03/84	Uchenick	364/200	
	4,460,922	07/17/84	Ensinger et al.	358/122	
	4,462,076	07/24/84	Smith, III	364/200	
	4,462,078	07/24/84	Ross	364/300	
	4,468,701	08/28/84	Burcher et al.	358/181	
	4,471,352	09/11/84	Souliard et al.	340/825.44	
	4,475,153	10/02/84	Kihara et al.	364/145	
	4,475,189	10/02/84	Herr et al.	370/62	
	4,476,535	10/09/84	Loshing et al.	364/480	
	4,476,573	10/09/84	Duckeck	455/45	
	4,477,830	10/16/84	Lindman et al.	358/1	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,217	11/20/84	Block et al.	358/84	
	4,484,328	11/20/84	Schlaflly	370/85	
	4,486,773	12/04/84	Okubo	358/84	
	4,488,289	12/11/84	Turner	370/60	
	4,489,220	12/18/84	Oliver	179/2 AM	
	4,489,316	12/18/84	MacQuivey	340/700	
	4,491,945	01/01/85	Turner	370/60	
	4,494,142	01/15/85	Mistry	358/118	
	4,494,156	01/15/85	Kadison et al.	360/48	
	4,494,230	01/15/85	Turner	370/60	
	4,495,623	01/22/85	George et al.	371/38	09/02/82
	4,495,654	01/22/85	Deiss	455/151	
	4,496,171	01/29/85	Cherry	283/61	
	4,496,975	01/29/85	Noirel	358/147	
	4,496,976	01/29/85	Swanson et al.	358/147	
	4,498,098	02/05/85	Stell	358/22	
	4,503,287	03/05/85	Morris et al.	178/22.08	
	4,503,538	03/05/85	Fritz	371/28	
	4,504,831	03/12/85	Jahr et al.	340/870.03	



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	4,507,680	03/26/85	Freeman	358/86	
	4,509,073	04/02/85	Baran et al.	358/86	
	4,510,623	04/09/85	Bonneau et al.	455/181	
	4,512,011	04/16/85	Turner	370/60	
	4,513,324	04/23/85	Poetsch et al.	358/214	
	4,520,392	05/28/85	Cox et al.	358/147	
	4,520,404	05/28/85	Von Kohorn	358/335	
	4,521,806	06/04/85	Abraham	358/86	
	4,527,194	07/02/85	Sirazi	358/86	
	4,531,020	07/23/85	Wechselberger et al.	178/22.08	
	4,532,540	07/30/85	Wine	358/12	03/28/83
	4,532,547	07/30/85	Bennett	358/148	
	4,533,948	08/06/85	McNamara et al.	358/122	
	4,533,949	08/06/85	Fujimura et al.	358/122	
	4,535,355	08/13/85	Arn et al.	358/123	
	4,538,174	08/27/85	Gargini et al.	358/86	
	4,539,676	09/03/85	Lucas	370/60	
	4,540,849	09/10/85	Oliver	179/2 AM	
	4,543,616	09/24/85	Brooks	358/335	
	4,544,963	10/01/85	Jacoby et al.	360/40	
	4,546,382	10/08/85	McKenna et al.	358/84	
	4,546,387	10/08/85	Glaab	358/186	
	4,550,407	10/29/85	Couason et al.	371/29	
	4,553,252	11/12/85	Egendorf	377/15	
	4,554,418	11/19/85	Toy	179/2 DP	
	4,554,584	11/19/85	Elam et al.	358/165	
	4,558,464	12/10/85	O'Brien, Jr.	455/4	
	4,562,306	12/31/85	Chou et al.	178/22.08	
	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,563,702	01/07/86	Heller et al.	358/119	
	4,566,034	01/21/86	Harger et al.	358/194.1	
	4,567,512	01/28/86	Abraham	358/86	
	4,570,930	02/18/86	Matheson	273/1 E	
	4,573,072	02/25/86	Freeman	358/86	
	4,573,151	02/25/86	Jotwani	370/56	
	4,574,305	03/04/86	Campbell et al.	358/86	
	4,575,750	03/11/86	Callahan	358/86	
	4,577,289	03/18/86	Comerford et al.	364/900	
	4,578,536	03/25/86	Oliver et al.	179/2 AM	
	4,578,718	03/25/86	Parker et al.	360/10.3	
	4,580,165	04/01/86	Patton et al.	358/148	
	4,583,128	04/15/86	Anderson, Jr. et al.	358/302	
	4,584,641	04/22/86	Guglielmino	364/200	
	4,586,134	04/29/86	Norstedt	364/200	
	4,588,991	05/13/86	Atalla	340/825.31	

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	4,589,064	05/23/86	Chiba et al.	364/200	
	4,590,516	05/20/86	Abraham	358/86	
	4,591,248	05/27/86	Freeman	352/133	
	4,591,664	05/27/86	Freeman	179/6.06	
	4,591,906	05/27/86	Morales-Garza et al.	358/84	
	4,592,546	06/03/86	Fascenda et al.	273/1 E	
	4,593,376	06/03/86	Volk	364/900	
	4,594,609	07/10/86	Romao et al.	358/119	
	4,595,950	06/17/86	Lofberg	358/122	
	4,595,951	06/17/86	Filliman	358/147	
	4,595,952	06/17/86	Filliman	358/47	
	4,596,021	06/17/86	Carter et al.	375/5	
	4,597,058	06/24/86	Izumi et al.	364/900	
	4,599,611	07/08/86	Bowker et al.	340/721	
	4,599,647	07/08/86	George et al.	358/122	
	4,600,918	07/15/86	Belisomi et al.	340/711	
	4,600,921	07/15/86	Thomas	340/825.31	
	4,602,279	07/22/86	Freeman	358/86	RECEIVED
	4,603,232	07/29/86	Kurland et al.	179/2 AS	
	4,605,964	08/12/86	Chard	358/147	MAR 26 2002
	4,605,973	08/12/86	Von Kohorn	358/335	
	4,608,456	08/26/86	Paik et al.	179/1 AS	Technology Center 2000
	4,613,901	09/23/86	Gilhousen et al.	358/122	
	4,614,972	09/30/86	Motsch et al.	358/147	
	4,616,262	10/07/86	Toriumi et al.	358/183	
	4,616,263	10/07/86	Eichelberger	358/185	
	4,620,224	10/28/86	Lee et al.	358/119	
	4,620,227	10/28/86	Levin et al.	358/147	
	4,620,229	10/28/86	Amano et al.	358/194.1	
	4,621,259	11/04/86	Schepers et al.	340/707	
	4,621,285	11/04/86	Schilling et al.	358/120	
	4,623,920	11/18/86	Dufresne et al.	358/122	01/20/83
	4,625,235	11/25/86	Watson	358/86	
	4,626,892	12/02/86	Nortrup et al.	358/21 R	
	4,626,909	12/02/86	Oniki et al.	358/114	
	4,630,108	12/16/86	Gomersall	358/84	
	4,630,262	12/16/86	Callens et al.	370/81	
	4,633,297	12/30/96	Skerios et al.	358/22	
	4,634,807	01/06/87	Chorley et al.	178/22.08	
	4,634,808	01/06/87	Moerder	178/22.14	
	4,635,121	01/06/87	Hoffman et al.	358/188	
	4,636,858	01/13/87	Hague et al.	358/147	
	4,638,181	01/06/87	Deiss	307/243	
	4,638,357	01/20/87	Heimbach	358/121	
	4,638,359	01/20/87	Watson	358/147	
	4,639,779	01/27/87	Greenberg	358/142	

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	4,639,890	02/03/87	Heilveil et al.	364/900	
	4,641,205	02/03/87	Beyers, Jr.	360/33.1	
	4,641,253	02/03/87	Mastran	364/328	
	4,641,307	02/03/87	Russell	370/60	
	4,644,396	02/17/87	Iwasaki	380/6	05/24/85
	4,646,075	02/24/87	Andrews et al.	340/747	
	4,646,145	02/24/87	Percy et al.	358/84	
	4,647,964	03/03/87	Weinblatt	358/84	
	4,649,533	03/10/87	Chorley et al.	370/58	
	4,656,629	04/07/87	Kondoh et al.	370/85	
	4,658,093	04/14/87	Hellman	380/25	
	4,658,290	04/14/87	McKenna	358/84	
	4,663,735	05/05/87	Novak et al.	364/900	
	4,677,434	06/30/87	Fascenda	380/23	
	4,677,466	06/30/87	Lert, Jr. et al.	358/84	
	4,677,611	06/30/87	Yanosy, Jr. et al.	370/85	
	4,680,581	07/14/87	Kozlik et al.	340/825.06	
	4,685,056	08/04/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	08/04/87	Home	380/20	
	4,688,197	08/18/87	Novak et al.	365/230	
	4,688,247	08/18/87	Davidov	380/19	
	4,689,022	08/25/87	Peers et al.	434/307	
	4,689,619	08/25/87	O'Brien, Jr.	340/825.08	
	4,691,351	09/01/87	Hayashi et al.	380/10	
	4,692,817	09/08/87	Theis	360/12	
	4,692,819	09/08/87	Steele	360/72.1	
	4,694,490	09/15/87	Harvey et al.	380/20	
	4,694,491	09/15/87	Home et al.	380/20	03/11/85
	4,695,953	09/22/87	Blair et al.	364/410	04/14/86
	4,696,034	09/22/87	Wiedemer	380/16	10/12/84
	4,697,281	09/29/87	O'Sullivan	379/59	03/14/86
	4,701,794	10/20/87	Fröling et al.	358/147	04/12/85
	4,704,725	11/03/87	Harvey et al.	380/48	
	4,707,828	11/17/87	Yamada	370/85	09/10/85
	4,709,418	11/24/87	Fox et al.	455/612	09/14/83
	4,710,800	12/01/87	Fearing et al.	358/22	09/16/85
	4,710,919	12/01/87	Oliver et al.	370/96	
	4,712,105	12/08/87	Köhler	340/825.69	04/30/85
	4,712,238	12/08/87	Gilhousen et al.	380/20	06/08/84
	4,712,239	12/08/87	Frezza et al.	380/20	06/16/86
	4,718,107	01/05/88	Hayes	455/4	
	4,720,819	01/19/88	Pinkham et al.	365/219	12/30/83
	4,722,526	02/02/88	Tovar et al.	273/1 E	01/20/87
	4,723,302	02/02/88	Fulmer et al.	455/2	
	4,724,491	02/09/88	Lambert	358/310	08/28/84
	4,728,949	03/01/88	Platte et al.	340/825.37	03/23/84
	4,731,679	03/15/88	O'Gwynn et al.	360/73	09/20/84

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	4,733,301	03/22/88	Wright, Jr.	358/181	06/26/87
	4,734,907	03/29/88	Turner	370/60	09/06/85
	4,736,422	04/05/88	Mason	380/120	
	4,737,993	04/12/88	DeVilbiss	455/180	01/21/87
	4,739,510	04/19/88	Jeffers et al.	380/15	04/02/87
	4,740,890	04/26/88	William	364/200	12/22/83
	4,745,549	05/17/88	Hashimoto	364/402	06/06/86
	4,745,598	05/17/88	Ulug	370/89	11/27/85
	4,747,081	05/24/88	Heilveil et al.	365/219	12/30/83
	4,747,139	05/24/88	Taaffe	380/44	10/21/86
	4,748,560	05/31/88	Kataoka	364/200	10/11/85
	4,750,036	06/07/88	Martinez	358/147	05/14/86
	4,750,213	06/07/88	Novak	455/67	06/09/86
	4,751,578	06/14/88	Reiter et al.	358/183	05/28/85
	4,751,665	06/14/88	Cappello et al.	364/748	02/24/86
	4,751,732	06/14/88	Kamitake	380/20	
	4,754,326	06/28/88	Kram et al.	364/900	10/25/83
	4,755,871	07/05/88	Morales-Garza et al.	358/84	11/25/86
	4,755,883	07/05/88	Uehira	358/335	09/11/85
	4,761,646	08/02/88	Choquet et al.	340/825.520	05/20/86
	4,763,317	08/09/88	Lehman et al.	370/58	12/13/85
	4,768,087	08/30/88	Taub et al.	358/84	06/06/85
	4,768,110	08/30/88	Dunlap et al.	360/33.1	05/06/87
	4,768,144	08/30/88	Winter et al.	364/200	10/20/86
	4,768,228	08/30/88	Clupper et al.	380/20	09/11/87
	4,768,229	08/30/88	Benjamin et al.	380/20	
	4,771,456	09/13/88	Martin et al.	380/10	11/06/86
	4,775,935	10/04/88	Yourick	364/401	09/22/86
	4,782,401	11/01/88	Faerber et al.	358/335	
	4,783,846	11/08/88	Wachob	455/151	06/04/87
	4,785,420	11/15/88	Little	364/513.5	
	4,786,979	11/22/88	Claus et al.	358/335	05/22/86
	4,787,063	11/22/88	Muguet	364/900	10/16/85
	4,787,085	11/22/88	Suto et al.	370/110.1	05/29/87
	4,789,863	12/06/88	Bush	340/825.350	01/13/88
	4,792,849	12/20/88	McCalley et al.	358/86	08/04/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/04/87
	4,796,181	01/03/89	Wiedmer	364/406	
	4,802,114	01/31/89	Sogame	364/900	12/15/86
	4,803,725	02/07/89	Home et al.	380/44	05/14/87
	4,805,014	02/14/89	Sahara et al.	358/86	09/14/87
	4,805,020	02/14/89	Greenberg	358/147	
	4,809,274	02/28/89	Walker et al.	371/37	
	4,812,843	03/14/89	Champion, III et al.	340/905	08/11/87
	4,813,011	03/14/89	Kulakowski et al.	364/900	05/13/85
	4,815,129	03/21/89	Griffin et al.	380/15	01/02/85

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	4,816,904	03/28/89	McKenna et al.	358/84	
	4,816,905	03/28/89	Tweedy et al.	358/86	04/30/87
	4,821,032	04/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	04/11/89	Ichikawa et al.	358/183	07/29/87
	4,825,050	04/25/89	Griffith et al.	235/379	09/13/83
	4,827,508	05/02/89	Shear	380/4	10/14/86
	4,833,710	05/23/89	Hirashima	380/20	12/03/87
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